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27 September 1971

MEMORANDUM FOR: Deputy for Operations, OSA
THROUGH : Chief, SAS/O/OSA
SUBJECT : Program Progress Report

Attached is the Program Progress Report on the
Aero Medical and Life Support Activities for the period
1 July 1971 through 30 September 1971.

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Chief, Aero Medical Staff
Office of Special Activities

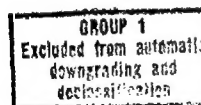
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USAF review(s) completed.



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25X1

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IDEA-033-71

Page 2

25X1

AERO MEDICAL AND LIFE SUPPORT ACTIVITIES

1 July 1971 thru 30 September 1971

IDEALISTA. Medical Activities

1. There have been no serious medical nor surgical illnesses in local or field personnel during this quarter.

2. [redacted] has replaced [redacted] as Senior Flight Surgeon and Director of Life Support at Edwards AFB. [redacted] is a fighter pilot who opted to study medicine after the Korean Conflict in which he participated. We are most fortunate to have him aboard.

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3. [redacted] has been in charge of Personal Equipment since the inception of the [redacted] program in 1956. He certainly is one of the most knowledgeable regarding high-altitude protective equipment. He has retired and accepted Contract status with the Agency at Edwards AFB.

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4. There is only one medical technician stationed [redacted] Over the last year, with increasing flying activity, it is apparent that he cannot be

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IDEA-0333-71
Page 3

present during all flying hours.

will visit

it is possible that a new
slot for a second medic will have to be found.

SECRET

SECRET

IDEA-0333-71
Page 4

25X1

B. LIFE-SUPPORT EQUIPMENT

1. Six-Line Release

The test program covering Engineering Change Proposal, ECP U2R-61, concerning control of personnel parachutes has been completed. No structural degradation of the RQ 225 parachute was observed, however, subjective critiques by individual experimental parachutists indicated that ability to gain directional control was quite fatiguing. A final report is expected in early fall.

2. S1010 PPA Design Study

A design study has been initiated to determine the feasibility of improving the current active Full-Pressure Suit Pilot's Protective Assemblies (S1010, S901J, and A/P 22S-6). Included in the purpose is the objective to determine the degree of multi-mission capability which might be achieved with a single basic protective assembly using interchangeable components. The primary effort initially will be in the helmet improvement area at a Fixed Price Level-of-Effort Contract.

3. Low-Flight Regulator Relocation

Relocation of the low-flight breathing regulator from the vest pocket of the low-flight harness to the right shoulder strap was accomplished during this quarter. Repositioning was done to provide the pilot the privilege of breathing underwater upside down in the event of emergency egress. Tests during "Dilbert Dunker" training in June 1971 dramatically demonstrated that the previous regulator location would not allow enough pressure for oxygen delivery to the mask when the crewmember was upside down underwater.

SECRET

25X1

SECRET

IDEA-0333-71
Page 5

25X1

4. Allowable Leak Tolerance in the S1010 PPA

Some consideration is being given to increasing the allowable leak tolerance in the S1010 Full Pressure suit. Present specifications allow a maximum bleed of 3400 cc/minute. By increasing the total allowable leak, costly maintenance changes of main entry zippers, etc. may be reduced, still providing a safe, reliable pressure suit.

C. TRAINING

1. Physiological Training - Detachment "H"

Refresher Physiological Training was conducted on [redacted] during the week of 9-16 July 1971. Support personnel from Detachment "H" on flying status [redacted] were given classroom lectures, and altitude chamber flights.

2. Physiological Training - Detachment "G"

Physiological Training including classroom lectures, pressure-suit chamber flights, and explosive decompressions were accomplished [redacted] [redacted] Both S1010 PPA's fit well and no comfort problems were encountered.

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